

P 1449 REPRODUCED

ATTORNEY DOCKET NO.
0399.2004-002

APPLICATION NO.
09/834,998

RECEIVED

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

APPLICANT
Roberto A. Gaxiola, et al.

SEP 03 2002

August 26, 2002

FILING DATE
April 13, 2001

GROUP
1638

TECH CENTER 1600/2900

(several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
AA						
AB						
AC						
AD						
AE						
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AH						
AI						
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AK						

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
AL					
AM					
AN					
AO					
AP					
AQ					

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Apse, M.P., et al., "Salt Tolerance Conferred by Overexpression of a Vacuolar Na ⁺ /H ⁺ Antiport in Arabidopsis," Science 285: 1256-1258 (20 August 1999).
AS	Gaxiola, R., et al., "A Novel and Conserved Salt-Induced Protein is an Important Determinant of Salt Tolerance in Yeast," EMBO J. 11(9):3157-3164 (September 1992).
AT	Gaxiola, R.A., et al., "The Yeast CLC Chloride Channel Functions in Cation Homeostasis," Proc. Natl. Acad. Sci. USA 95(7):4046-4050 (March 1998)

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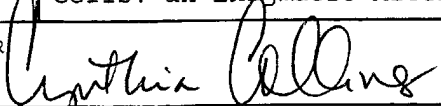
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

cc	AU	Gaxiola, R.A., et al., "The Arabidopsis thaliana Proton Transporters, AtNhx1 and Avp1, Can Function in Cation Detoxification in Yeast," <i>Proc. Natl. Acad. Sci. USA</i> 96:1480-1485 (February 1999).
	AV	Hechenberger, M., et al., "A Family of Putative Chloride Channels from Arabidopsis and Functional Complementation of a Yeast with a CLC Gene Disruption," <i>J. Biol. Chem.</i> 271(52):33632-33638 (December 27, 1996).
	AW	Nass, R., et al., "Novel Localization of a Na ⁺ /H ⁺ Exchanger in a Late Endosomal Compartment of Yeast," <i>J. Biol. Chem.</i> 273(33):21054-21060 (August 14, 1998).
	AX	Sato, M.H., et al., "The AtVAM3 Encodes a Syntaxin-Related Molecule Implicated in the Vacuolar Assembly in Arabidopsis thaliana," <i>J. Biol. Chem.</i> 272(39):24530-24535 (September 26, 1997).
	AY	Stitt, M., "Pyrophosphate as an Energy Donor in the Cytosol of Plant Cells: an Enigmatic Alternative to ATP," <i>Bot. Acta</i> 111:167-175 (1998).
	AZ	Xie, X.S., et al., "Isolation and Reconstruction of the Chloride Transporter of Clathrin-Coated Vesicles," <i>J. Biol. Chem.</i> 264(32):18870-18873 (November 1989).
	AR2	Topfer, R., et al., "A Set of Plant Expression Vectors for Transcriptional and Translational Fusions," <i>Nucleic Acid Res.</i> 15(14):5890 (July 24, 1987).
✓	AS2	Zhen, R.G., et al., "Acidic Residues Necessary for Pyrophosphate-Energized Pumping and Inhibition of the Vacuolar H ⁺ -pyrophosphatase by N,N'-Dicyclohexylcarbodiimide," <i>J. Biol. Chem.</i> 272(35):22340-22348 (August 29, 1997).

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12/19/03

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CC	AT2	Ballesteros, E., et al., "Na ⁺ /H ⁺ antiport activity in tonoplast vesicles isolated from sunflower roots induced by NaCl stress," <i>Physiol. Plant.</i> , 99:328-334 (1997).				
	AU2	Gibeaut, D.M., et al., "Maximal Biomass of <i>Arabidopsis thaliana</i> Using a Simple, Low-Maintenance Hydroponic Method and Favorable Environmental Conditions," <i>Plant Physiol.</i> 115:317-319 (1997).				
	AV2	Kim, Y., et al., "Isolation and Characterization of cDNAs Encoding the Vacuolar H ⁺ -Pyrophosphatase of <i>Beta vulgaris</i> ," <i>Plant Physiol.</i> , 106:375-382 (1994).				
	AW2	Kirsch, M., et al., "Salt stress induces an increased expression of V-type H ⁺ -ATPase in mature sugar beet leaves," <i>Plant Mol. Biol.</i> , 32:543-547 (1996).				
	AX2	Neuhaus, J-M, and Rogers, J.C., "Sorting of proteins to vacuoles in plant cells," <i>Plant Mol. Biol.</i> , 38:127-144 (1998).				
	AY2	Paris, N., et al., "Molecular Cloning and Further Characterization of a Probable Plant Vacuolar Sorting Receptor," <i>Plant Physiol.</i> , 115:29-39 (1997).				
	AZ2	Serrano, R., and Gaxiola, R., "Microbial Models and Salt Stress Tolerance in Plants," <i>Critical Reviews in Plant Sciences</i> , 13(2):121-138 (1994).				
	AR3	Stitt, M., "Pyrophosphate as an Energy Donor in the Cytosol of Plant Cells: an Enigmatic Alternative to ATP," <i>Bot. Acta.</i> 111:167-175 (1998).				
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CC	AS3	Tsiantis, M.S., et al., "Salt regulation of transcript levels for the c subunit of a leaf vacuolar H ⁺ -ATPase in the halphyte <i>Mesembryanthemum crystallinum</i> ," <i>The Plant Journal</i> , 9(5):729-736 (1996).					
	AT3	Vitale, A., and Raikhel, N.V., "What do proteins need to reach different vacuoles?," <i>Trends in Plant Science</i> , 4:148-154 (1999).					
	AU3	Zhen, R.G., et al., "Acidic Residues Necessary for Pyrophosphate-energized Pumping and Inhibition of the Vacuolar H ⁺ -pyrophosphatase by N,N' -Dicyclohexylcarbodiimide," <i>J. of Biol. Chem.</i> , 272(35):22340-22348 (1997).					
	AV3	Safafian, V., et al., "Molecular cloning and sequence of cDNA encoding the pyrophosphate-energized vacuolar membrane proton pump of <i>Arabidopsis thaliana</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , 89:1775-1779 (1992).					
	AW3	Lerchl, J., et al., "Molecular cloning, characterization and expression analysis of isoforms encoding tonoplast-bound proton-translocating inorganic pyrophosphatase in tobacco," <i>Plant Mol. Biol.</i> , 29:833-840 (1995).					
	AX3	Kim, E.J., et al., "Heterologous expression of plant vacuolar pyrophosphatase in yeast demonstrates sufficiency of the substrate-binding subunit for proton transport," <i>Proc. Natl. Acad. Sci. USA</i> , 91:6128-6132 (1994).					
	AY3	Schwappach, B., et al., "Golgi Localization and Functionally Important Domains in the NH ₂ and COOH Terminus of the Yeast CLC Putative Chloride Channel Geflp," <i>J. of Biol. Chem.</i> , 273(24):15110-15118 (1996).					
	AZ3	Hong, B., et al., "Identification of a Calmodulin-Regulated Ca ²⁺ -ATPase in Endoplasmic Reticulum," <i>Plant Physiology</i> , 119:1165-1175 (1999).					
	AR4	Burbidge, A., et al., "Structure and expression of a cDNA encoding a putative neoxanthin cleavage enzyme (NCE), isolated from a wilt-related tomato (<i>Lycopersicon esculentum</i> Mill.) Library," <i>J. of Exp. Botany</i> , 47(317):2111-2112 (1997).					
✓	AS4	Al-Awqati, Q., "Chloride channels of intracellular organelles," <i>Current Opinion in Cell Biology</i> 1995, 7:504-508.					
EXAMINER Cynthia Collins				DATE CONSIDERED 12/9/03			